

What is claimed is:

1. A method for locating a wireless user, the method comprising:
transmitting from a plurality of antennas a first spread spectrum signal having an associated code;
receiving of the first spread spectrum signals at the wireless user;
for each received first spread spectrum signal, transmitting a second spread spectrum signal having an associated code having a same phase as that received first spread spectrum signal;
receiving the second spread spectrum signals at the plurality of antennas;
determining a distance measurement between each antenna and the wireless user based on in part a received timing of the second signals; and
determining the wireless user's location based on in part the distance determinations.
2. The method of claim 1 wherein the determining of the wireless user's location is performed at the wireless user.
3. The method of claim 2 further comprising the antennas transmit the distance determinations to the wireless user.
4. The method of claim 3 further comprising the wireless user receiving the distance determinations.

5. A wireless communication system for geographically locating a wireless user, the system comprising:

means for transmitting from a plurality of antennas a first spread spectrum signal having an associated code;

means for receiving of the first spread spectrum signals at the wireless user;

means for each received first spread spectrum signal, for transmitting a second spread spectrum signal having an associated code having a same phase as that received first spread spectrum signal;

means for receiving the second spread spectrum signals at the plurality of antennas;

means for determining a distance measurement between each antenna and the user based on in part a received timing of the second signals; and

means for determining the wireless user's location based on in part the distance determinations.

6. A wireless user capable of being located, the wireless user comprising:

means for receiving of first spread spectrum signals transmitted from a plurality of antennas;

means for each received first spread spectrum signal, for transmitting a second spread spectrum signal having an associated code having a same phase as that received first spread spectrum signal;

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means for receiving a range determination from each of the plurality of antennas; and

means for determining a location of the wireless user using the received range determinations.